

WHAT IS CLAIMED IS:

1 1. An ACF (Anisotropic Conductive Film) tape feeder machine
2 having an ACF bonding means adapted to draw out an ACF tape, with
3 an ACF laminated on a liner tape, from a supply reel set in a feed
4 position at an ACF tape feeding station, and to bond said ACF on
5 substrate plate surfaces one after another over a predetermined length,
6 characterized in that:

7 said ACF tape feeding station is provided with a reel stand having
8 at least two reel mount members for setting at least two ACF tape
9 supply reels separately thereon;

10 said reel mount members of said reel stand are connected to a
11 switch means and switchable to and from an operating position for
12 reeling out said ACF tape to said bonding means and a standby
13 position.

1 2. An ACF tape feeder machine as defined in claim 1, wherein
2 said reel stand includes, for each one of said ACF tape supply reels, a
3 reel support shaft and a tape end holder member for temporarily
4 holding a fore end portion of an ACF tape reeled out from said supply
5 reel, and a tape handover means provided in association with said
6 operating position of said reel stand and adapted to pick up said fore

7 end portion of said ACF tape from said tape end holder member and
8 hand the same over to said bonding means.

1 3. An ACF tape feeder machine as defined in claim 2, wherein
2 said bonding means includes a chuck member adapted to grip a fore
3 end portion of said ACF tape, a bonding roller adapted to press said
4 liner tape against a substrate plate, a peeler roller adapted to peel off
5 said liner tape from an ACF bonded on said substrate plate, said tape
6 handover means having a handover chuck means adapted to pick up
7 said fore end portion of said ACF tape from said tape end holder
8 member and hand the same over to said chuck member of said bonding
9 means.

1 4. An ACF tape feeder machine as defined in claim 2, wherein
2 each one of said reel mount members has a support plate adapted to
3 support said reel support shaft and said tape end holder member
4 thereon, and said reel stand is connected to a rotational shaft thereby
5 to switch said two reel mount members selectively to and from said
6 operating position and standby position.

1 5. A method for feeding an ACF tape, comprising the steps of;

2 providing at least two reel support members on a reel stand to
3 support and set at least two ACF tape supply reels thereon, one in an
4 operating position for reeling off an ACF tape and the other one in a
5 standby position;
6 while an ACF tape from a supply reel in said operating position is
7 being bonded on substrate plates by the use of a bonding means,
8 replacing an empty supply reel in said standby position by a fresh ACF
9 tape supply reel;
10 as soon as said ACF tape supply reel in said operating position
11 becomes empty, switching positions of said reel mount members to
12 locate the reel mount member with the fresh ACF tape supply reel in
13 said operating position; and
14 drawing out an ACF tape from said fresh reel and connecting the
15 same to said bonding means.

1 6. A method for feeding an ACF tape as defined in claim 5,
2 wherein an empty tape supply reel is replaced by a fresh supply reel
3 manually in said standby position, while a fore end portion of an ACF
4 tape from a tape supply reel, switched to said operating position, is
5 connected to said bonding means automatically by the use of a tape
handover means.